

## T06D04 - 6.2 SL IB Review HW MS

1. A

2. A

3. ([A] against time) - straight line with negative gradient;

*Accept any decreasing curve*

([B] against time) - decreasing curve;

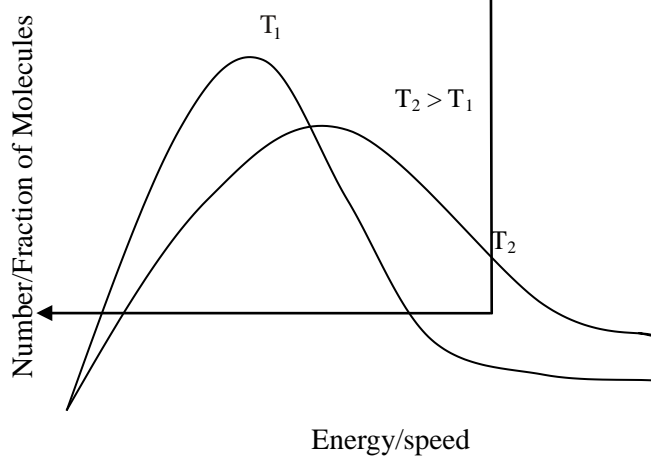
*Award [1] unless half-lives clearly not constant*

(rate against [A]) - any horizontal straight line;

(rate against [B]) - straight line through origin;

*Award [3] for all four correct, award [2] for any three correct and [1] for any two correct.***[3]**

4. (i)

 $T_2$  peak lower/ $T_1$  higher; $T_2$  peak at higher energies/ $T_1$  curve at lower energies;

2

*Maximum [1] if axes not labeled correctly*

(ii) minimum energy required to react/energy difference between reactants and transition state;

1

(iii) makes the reaction go faster;

because it lowers the activation energy/ $E_a$ ;

2

**[5]**